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[1. 16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

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[2. 16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-to-vehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

SBIR Department of Transportation

[3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses](#)

Release Date: 10-14-2015 Open Date: 10-14-2015 Due Date: 12-16-2015 Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

SBIR Department of Transportation

[4. OSD153-001: System Architecture Recovery and Analysis \(SARA\)](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information System The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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[5. OSD153-002: Cyber Deception for Network Defense](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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[6. OSD153-003: Next-Generation Secured Mobile Devices for Mobile, Tactical Environments](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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7. OSD153-004: Moving Target Defense

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors ...

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8. OSD153-005: High-Assurance Cyber-Physical Systems

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: To define threat models; develop and prototype novel, resilient architectures, tools, and techniques to mitigate threats to cyber-physical system. To develop modeling and simulation tools that consider the safety and correctness constraints of the physical systems and the interaction with the digital components. DESCRIPTION: Cyber-physic ...

SBIR Office of the Secretary of Defense Department of Defense

9. DTRA152-001: Radiation Hardened Optoelectronics for Optical Interconnects

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

With the dominance of parallel processing, the rise integrated "system on chip" (SOC) architecture, and the continuing need to handle more data more quickly, traditional electronic interconnects are reaching their practical limits. Optical data transfer has already replaced electronic data transfer in long distance applications (km) and shorter distance high bandwidth applications (m-cm) due t ...

SBIR Defense Threat Reduction Agency Department of Defense

10. DTRA152-002: Materials Development for Enhanced X-ray Detection of Dynamic Material Events Under Fast Loading Rates

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The Defense Threat Reduction Agency's Basic Research Program, Thrust Area 4 - Science to Defeat WMD (weapons of mass destruction), has been supporting research of hard and deeply buried targets including penetration of concretes and geological materials. With new experimental facilities that now couple high intensity and high flux x-ray capabilities with impact drivers (e.g. lasers, gas guns, ...

SBIR Defense Threat Reduction AgencyDepartment of Defense

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